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## NOTICE OF ALLOWANCE AND FEE(S) DUE

50811

7590

01/21/2010

O"Shea Getz P.C. 1500 MAIN ST. SUITE 912 SPRINGFIELD, MA 01115 EXAMINER

GARRITY, DIANA C

ART UNIT PAPER NUMBER

2814 DATE MAILED: 01/21/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588,559	05/31/2007	Markus Burgmair	3000-68	8275

TITLE OF INVENTION: SENSOR COMPRISING SENSITIVE DETECTION ELEMENT AND COMPONENTS CONTAINING HYDROPHOBIC

COATED SILICON LAYER.

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/21/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

## Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further correspondence including the Patent, advance orders and notification indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new of maintenance fee notifications.  CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must					
50811 O"Shea Getz P 1500 MAIN ST. SPRINGFIELD,	.C. SUITE 912	/2010				Cert	tificate	ling or transmission.  of Mailing or Transm  ) Transmittal is being ficient postage for first ISSUE FEE address at 1) 273-2885, on the da	nission deposited with the United class mail in an envelope bove, or being facsimile te indicated below.
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APPLICATION NO.	APPLICATION NO. FILING DATE			FIRST NAMED INVENTOR			ATTORNEY DOCKET NO. CONFIRMATI		CONFIRMATION NO.
10/588,559	05/31/2007			Markus Burgmair		•		3000-68	8275
TITLE OF INVENTIO		ı				PREV. PAID ISSUE		TOTAL FEE(S) DUE	,
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EXAM	EXAMINER		ART UNIT	CLASS-SUBCLASS	s				
GARRITY,	GARRITY, DIANA C 2814		2814	257-226000					
"Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A PLEASE NOTE: Unl	less an assignee is ident h in 37 CFR 3.11. Comp	" Indicated. Use	ation form e of a Customer E PRINTED ON Telow, no assignee	data will appear on th	ngle or agattoria be protected to the pr	3 registered patentely, firm (having as a gent) and the namency or agents. If in rinted.	membes of upno nam	er a 2	cument has been filed for
Please check the appropriate assignee category or categories (will not be  4a. The following fee(s) are submitted:  Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			4b	printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government  4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
	s SMALL ENTITY statu	ıs. See	37 CFR 1.27.	☐ b. Applicant is no	long	er claiming SMAL	L ENT	TITY status. See 37 CF.	
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Typed or printed name									
This collection of inform an application. Confident submitting the completed this form and/or suggesti	ation is required by 37 C tiality is governed by 35 d application form to the ons for reducing this but	FR 1.3 U.S.C. USPT rden, sl	11. The information 122 and 37 CFR O. Time will vary nould be sent to the	on is required to obtain 1.14. This collection is depending upon the ir e Chief Information Of	or re estindivi	tain a benefit by the mated to take 12 ndual case. Any co , U.S. Patent and	ne publ ninutes mment Traden	ic which is to file (and to complete, including s on the amount of tim nark Office, U.S. Depar	by the USPTO to process) gathering, preparing, and e you require to complete tment of Commerce, P.O.

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APPLICATION NO.	FILING DATE	FILING DATE FIRST NAMED INVENTOR		CONFIRMATION NO.
10/588,559	05/31/2007	Markus Burgmair	3000-68	8275
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O"Shea Getz P.C	1		GARRITY	, DIANA C
1500 MAIN ST. S		ART UNIT	PAPER NUMBER	
SPRINGFIELD, M	1A 01115		2814	
			DATE MAILED: 01/21/201	0

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/588,559	BURGMAIR ET AL.			
Notice of Allowability	Examiner	Art Unit			
	DIANA O CARRITY	0044			
	DIANA C. GARRITY	2814			
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in the or other appropriate communice of the communication is subjected in the communication of the communication is subjected in the communication in the co	nis application. If not included cation will be mailed in due course. <b>THIS</b>			
1. $\boxtimes$ This communication is responsive to <u>Election (1 September</u>	<u>er 2009)</u> .				
2. The allowed claim(s) is/are <u>1-3,5-6 and 12-21</u> .					
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> </ul>	e been received.	•			
3. Copies of the certified copies of the priority do	cuments have been received i	n this national stage application from the			
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give					
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.				
(a) $\square$ including changes required by the Notice of Draftspers	son's Patent Drawing Review (	PTO-948) attached			
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or ir	the Office action of			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t					
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT					
Attachment(s)  1.  Notice of References Cited (RTO 802)	5. Notice of Info	rmal Patent Application			
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>		, ,			
	Paper No./Ma	ail Date			
3. ☑ Information Disclosure Statements (PTO/SB/08), 7. ☑ Examiner's Amendment/Comment Paper No./Mail Date 9 January 2009					
4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. ☒ Examiner's Statement of Reasons for Allowance					
of Biological Material 9. ☐ Other					
/Diana C Garrity/					
Examiner, Art Unit 2814					

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## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

## Please cancel claims 7-10.

## Status of Claims

- 2. Amendment filed January 9, 2009 is acknowledged.
  - Claims 4, and 7-11 have been cancelled.
  - Claims 1-3 and 5-20 are pending.
    - o Claims 1, 12, and 14 to 17 have been amended.
    - o Claim 21 has been added.
    - o Claims 1-3, 5-6, and 12-21 are examined below.
      - Claims 1-3, 5-6, and 12-21 are allowed.

#### Election/Restrictions

3. Applicant's confirmation of withdrawal of claim 8 in the reply filed on January 9, 2009 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

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cancelled.

5.

4. This application is in condition for allowance except for the presence of claims 7-10 directed to an invention non-elected without traverse. Accordingly, claims 7-10 have been

The information disclosure statement (IDS) submitted on January 9, 2009 was filed

after the mailing date of the Nonfinal Office Action on August 9, 2008. The submission is in

Information Disclosure Statement

compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure

statement is being considered by the examiner.

Oath/Declaration

6. The Application Data Sheet was received on January 9, 2009, and is acceptable.

Allowable Subject Matter

7. Claims 1-3, 5-6, and 12-21 are allowed.

8. The following is an examiner's statement of reasons for allowance:

Nowhere in the prior art does the combination of limitations exist which include:

- a silicon substrate having a source region, a drain region and a capacitive well;
- a floating gate disposed on the silicon substrate to form a field effect transistor with

the source and drain region;

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an insulating layer that separates the floating gate and a hybrid mounted top
electrode having a sensitive layer formed on an underside thereof, where the
sensitive layer and the insulating layer form an air gap; and
a layer of hydrophobic material on a surface of the insulating layer within the air
gap;

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nor did any combination of references of the prior art show the claimed combination of limitations to be obvious to one of ordinary skill in the art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DIANA C. GARRITY whose telephone number is (571)
 270-5026. The examiner can normally be reached on Monday-Friday 7:00 AM - 3:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (571) 272-1705. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Diana C Garrity/ Examiner, Art Unit 2814 /Phat X. Cao/ Primary Examiner, Art Unit 2814